

offset each other, as in the casting of high-Cr steels having high volume expansion. The shrinkage volume change is 1-5 volume% in the crystalline temperature range. Porosity and hot cracking increase with increase in shrinkage volume

ST casting steel shrinkage riser mold
IT Casting process
(of steels, feeding effect on solidification shrinkage in)
IT 62395-06-6
RL: USES (Uses)
(casting of austenitic, feeding effect on solidification shrinkage in)
IT 89382-40-1
RL: USES (Uses)
(casting of ferritic, feeding effect on solidification shrinkage in)
IT 63850-89-5 89256-76-8 89382-39-8, properties
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(casting of, feeding effect on solidification shrinkage in)

L11 ANSWER 49 OF 71 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1983:544147 CAPLUS
DN 99:144147
ED Entered STN: 12 May 1984
TI Cast iron
IN Dovgopol, V. I.; Filippenkov, A. A.; Parshin, V. A.; Filippov, A. S.; Medvedev, A. A.; Puzyr'kov-Uvarov, O. V.; Kutafin, A. K.; Kravets, K. F.; Budag'yants, N. A.; et al.
PA Ural Scientific-Research Institute of Ferrous Metals, USSR; Ukrainian Scientific-Research Institute of Metals
SO U.S.S.R.
From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1983, (24), 75-6.
CODEN: URXXAF
DT Patent
LA Russian
IC C22C037-10
CC 55-3 (Ferrous Metals and Alloys)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 1025750	A1	19830630	SU 1981-3357466	19811126
PRAI	SU 1981-3357466		19811126		
AB	The cast iron [87193-86-0] with increased strength, heat stability, and as-cast crack resistance contains Cu 0.02-2, Mo 0.01-0.6 and Ca 0.0001-0.01% in addition to C 2.7-3.9, Si 0.35-2, Mn 0.2-1.2, Cr 0.05-2, Ni 0.05-3.6, V 0.03-0.5, and N 0.005-0.035%.				
ST	cast iron calcium copper; molybdenum cast iron property				
IT	7440-70-2, uses and miscellaneous 7727-37-9, uses and miscellaneous				
	RL: USES (Uses)				
	(in cast iron, mech. properties in relation to)				
IT	87193-86-0				
	RL: USES (Uses)				
	(mech. properties of cast)				
IT	11097-15-7, properties				
	RL: PRP (Properties)				
	(mech. properties of, alloying effect on)				

L11 ANSWER 50 OF 71 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1982:621309 CAPLUS
DN 97:221309
ED Entered STN: 12 May 1984
FI Study of antifriction characteristics and wear resistance of materials in nonflammable hydraulic fluids
AU Matsak, A. T.; Mozharov, M. V.; Svinarev, I. G.
KS Khar'k. Avtomob.-Dorozhn. Inst., Kharkov, USSR
SO Trenie i Iznos (1982), 3(3), 553-8
CODEN: TRIZD6; ISSN: 0202-4977
JT Journal
LA Russian
JC 56-10 (Nonferrous Metals and Alloys)
AB Antifriction and antiwear properties of steels, bronzes, and modified cast irons were investigated during friction in aqueous emulsions containing 2% E-2 and VNIINP-117 liqs. or in a water-glycerol mixture